**Interactive Vocabulary Unit 1**

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**Use the set Coordinate Algebra Unit 1 to learn your vocabulary for this unit.**

**Algebra:** The branch of mathematics that deals with relationships between numbers, utilizing letters and other symbols to represent specific sets of numbers, or to describe a pattern of relationships between numbers.

* **Coefficient:** A number multiplied by a variable.
* **Domain**:  The set of *x*-coordinates of the set of points on a graph; the set of *x*-coordinates of a given set of ordered pairs. The value that is the input in a function or relation.
* **Equation:** A number sentence that contains an equals symbol.
* **Expression:** A mathematical phrase involving at least one variable and sometimes numbers and operation symbols.
* **Function**:  A rule of matching elements of two sets of numbers in which an input value from the first set has only one output value in the second set.
* **Inequality**: Any mathematical sentence that contains the symbols > (greater than), < (less than), < (less than or equal to), or > (greater than or equal to).
* **Ordered Pair**:  A pair of numbers, (*x*, *y*), that indicate the position of a point on a Cartesian plane.
* **Perimeter**:  The sum of the lengths of the sides of a polygon.
* **Pythagorean Theorem:** It is a theorem that states a relationship that exists in any right triangle. If the lengths of the legs in the right triangle are *a* and *b* and the length of the hypotenuse is *c*, we can write the theorem as the following equation:

http://intermath.coe.uga.edu/dictnary/images/triangle/pythm.gif

* **Range**:  The *y*-coordinates of the set of points on a graph. Also, the *y*-coordinates of a given set of ordered pairs. The range is the output in a function or a relation.
* **Substitution:** To replace one element of a mathematical equation or expression with another.
* **Variable:** A letter or symbol used to represent a number.